Murine Anti-Prothrombin

Clone GMA-095

Prothrombin is the vitamin K-dependent zymogen of thrombin. As a single chain protein (Mr 72,000) it contains 10 Gla residues, 2 kringle domains and three N-linked carbohydrate units. Prothrombin is activated to thrombin by the prothrombinase complex consisting of enzyme factor Xa, cofactor factor Va, phospholipid and Ca^{2+}. GMA-095 binds human prothrombin in solid-phase ELISA and western blot.

Description

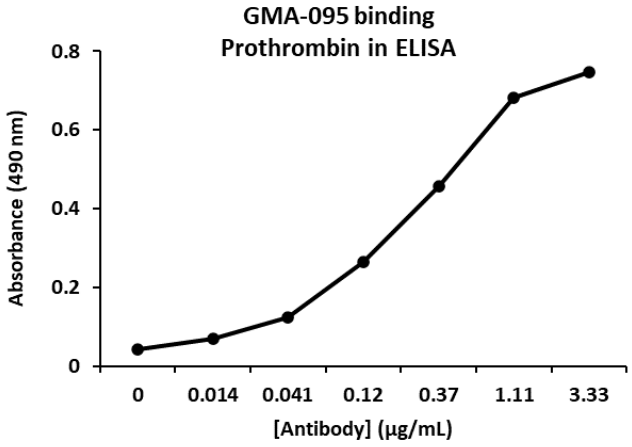
Antibody Source:	mouse monoclonal, IgG_1
Antigen Species Bound:	human
Specificity:	prethrombin-1 (residues 272-579 of prothrombin)
Immunogen:	human prothrombin

Formulation and Storage

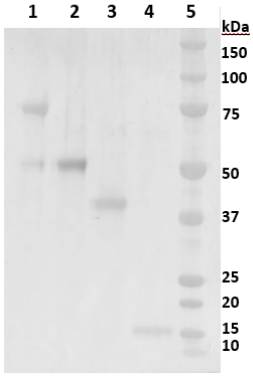
Purity:	Purified by protein G affinity chromatography from serum-free cell culture supernatant.
Product Formulation:	Lyophilized from a ≥1 mg/ml solution in 20 mM NaH_2PO_4 0.15 M NaCl, 1.0% (w/v) mannitol, pH 7.4. Concentration determined by absorbance measurement at 280 nm and using an extinction coefficient of 1.4 ($\varepsilon_{0.1\%}$).
Reconstitution:	Reconstitute with deionized water.
Storage:	Store lyophilized or reconstituted and aliquoted material at -20°C for prolonged periods. Avoid freeze-thaw cycles. Alternatively, add 0.02% (w/v) sodium azide to reconstituted solution and store at 4°C.
Country of Origin:	USA
Size Options:	0.1 mg or 0.5 mg

Applications

Working Concentration:	Approximately 1-5 µg/ml. Researcher should titer antibody in specific assay.
ELISA:	Binds prothrombin, as well as prethrombin-1, fragment 1.2 and fragment 2.
Immunoblotting:	Binds prothrombin, as well as prethrombin-1, fragment 1.2 and fragment 2.



Western blot of reduced proteins, 5 ug/mL GMA-095



1) prothrombin
2) prethrombin-1
3) fragment 1.2
4) fragment 2
5) molecular weight marker

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